```
L1            1 S US 20070185096/PN

     FILE 'REGISTRY' ENTERED AT 14:29:42 ON 07 DEC 2009
L2            1 S 865470-96-8/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:30:06 ON 07 DEC 2009
L3            1 S 865470-97-9/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:30:20 ON 07 DEC 2009
L4            1 S 865470-98-0/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:30:34 ON 07 DEC 2009
L5            1 S 865470-99-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:30:49 ON 07 DEC 2009
L6            1 S 865471-00-7/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:31:07 ON 07 DEC 2009
L7            1 S 865471-01-8/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:31:28 ON 07 DEC 2009
L8            1 S 689141-48-8/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:31:49 ON 07 DEC 2009
L9            1 S 865470-74-2/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:32:09 ON 07 DEC 2009
L10           1 S 865470-85-5/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:35:21 ON 07 DEC 2009
L11             STRUCTURE UPLOADED
L12          39 S L11 SSS SAM
L13         762 S L11 SSS FULL

     FILE 'REGISTRY' ENTERED AT 14:39:17 ON 07 DEC 2009
L14           1 S 865471-04-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY
```

```
     FILE 'REGISTRY' ENTERED AT 14:39:41 ON 07 DEC 2009
L15           1 S 406940-52-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:40:15 ON 07 DEC 2009
L16           1 S 406941-75-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:41:18 ON 07 DEC 2009
L17           1 S 406942-68-5/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:41:54 ON 07 DEC 2009
L18           1 S 406943-07-5/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:42:23 ON 07 DEC 2009
L19           1 S 406944-37-4/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:42:48 ON 07 DEC 2009
L20           1 S 543700-68-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:43:14 ON 07 DEC 2009
L21           1 S 682754-93-4/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:43:32 ON 07 DEC 2009
L22           1 S 682755-55-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:43:51 ON 07 DEC 2009
L23           1 S 682755-63-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:44:09 ON 07 DEC 2009
L24           1 S 682755-73-3/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:52:59 ON 07 DEC 2009
L25             STRUCTURE UPLOADED
L26           0 S L25 SSS SAM
L27           0 S L25 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 14:53:38 ON 07 DEC 2009
L28           1 S US 20070185096/PN
```

FILE 'REGISTRY' ENTERED AT 14:53:58 ON 07 DEC 2009
L29 1 S 865470-94-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:54:10 ON 07 DEC 2009
L30 1 S 865471-20-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:54:23 ON 07 DEC 2009
L31 1 S 865471-17-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:54:38 ON 07 DEC 2009
L32 1 S 115029-23-7/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:54:56 ON 07 DEC 2009
L33 1 S 865471-01-8/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:55:14 ON 07 DEC 2009
L34 1 S 865471-02-9/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:55:31 ON 07 DEC 2009
L35 1 S 865471-03-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:55:51 ON 07 DEC 2009
L36 1 S 865471-04-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:56:08 ON 07 DEC 2009
L37 1 S 865471-05-2/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:56:27 ON 07 DEC 2009
L38 1 S 865471-06-3/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 14:56:47 ON 07 DEC 2009
L39 1 S 865471-08-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

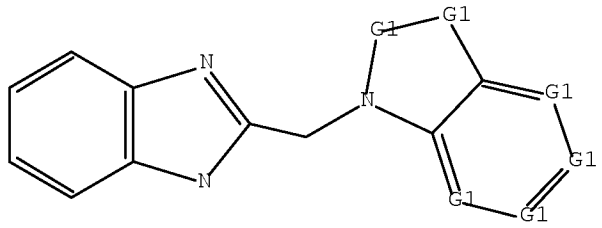
FILE 'REGISTRY' ENTERED AT 14:57:08 ON 07 DEC 2009

```
L40           1 S 865471-10-9/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:57:30 ON 07 DEC 2009
L41           1 S 865471-12-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:58:07 ON 07 DEC 2009
L42           1 S 1019852-79-9/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:58:33 ON 07 DEC 2009
L43           1 S 689141-85-3/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:58:57 ON 07 DEC 2009
L44           1 S 400750-49-4/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 14:59:26 ON 07 DEC 2009
L45           1 S 682754-93-4/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:00:00 ON 07 DEC 2009
L46           1 S 682755-55-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:00:31 ON 07 DEC 2009
L47           1 S 682755-63-1/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:00:57 ON 07 DEC 2009
L48           1 S 682755-73-3/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:01:30 ON 07 DEC 2009
L49           1 S 682755-77-7/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:01:48 ON 07 DEC 2009
L50           1 S 865724-48-7/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:03:44 ON 07 DEC 2009
L51           1 S 865724-49-8/RN
                SET NOTICE 1 DISPLAY
```

```
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:04:09 ON 07 DEC 2009
L52             1 S 865788-63-2/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:04:31 ON 07 DEC 2009
L53             1 S 317846-22-3/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:05:01 ON 07 DEC 2009
L54             1 S 301353-36-6/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:05:56 ON 07 DEC 2009
L55             1 S 865470-74-2/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:06:27 ON 07 DEC 2009
L56             1 S 865471-21-2/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:07:13 ON 07 DEC 2009
L57             1 S 865475-79-2/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:07:37 ON 07 DEC 2009
L58             1 S 865475-45-2/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:07:54 ON 07 DEC 2009
L59             1 S 865471-65-4/RN
                SET NOTICE 1 DISPLAY
                SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 15:08:26 ON 07 DEC 2009
                E 865471-48-7/RN
                E 865724-48-7/RN
L60             1 S E3
                SET EXPAND CONTINUOUS

     FILE 'HCAPLUS' ENTERED AT 15:09:12 ON 07 DEC 2009
L61             2 S L60
L62             3 S L59
L63             0 S L62 AND (PY<2004 OR AY<2004 OR PRY<2004)



L1                STRUCTURE UPLOADED
```

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

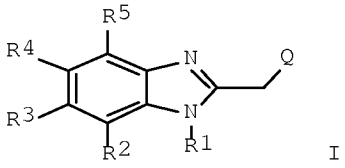


G1 C,N
G2 C,S
G3 Cy,Ak

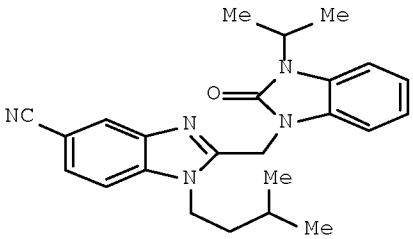
L2 50 S L1 SSS SAM
L3 1054 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 15:58:01 ON 07 DEC 2009
L4 52 S L3
L5 21 S L4 AND (PY<2004 OR AY<2004 OR PRY<2004)
L6 8 S L5 AND (SYNCYTIAL?)

L6 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 2-(heterocyclylmethyl)benzimidazoles as respiratory syncytial virus antiviral agents
GI



I



II

AB Title compds. I [wherein R1 = (CRaRb)nX; R2 = H; R3 = CONRhRi, CO2Rd, or (un)substituted alkyl; R4 = NH2, CONRhRi, heteroaryl, alkenyl, CO2Rd, N=CPh2, C(NOH)NH2, C(NH)NH2, or (un)substituted alkyl; R5 = CO2Rj or (un)substituted alkyl or alkenyl; Q = (un)substituted benzimidazolyl, benzotriazolyl, imidazopyridinyl, quinolinyl, quinazolinyl, benzyloxy, etc.; X = H or (un)substituted alkyl; Ra and Rb = independently H or (halo)alkyl; Rd = alkyl; Rh and Ri = independently H or alkyl; Rj = H or alkyl; n = 1-6; and pharmaceutically acceptable salts thereof] were prepared as antiviral compds. More particularly, the invention provides 2-(heterocyclylmethyl)benzimidazole derivs. for the

treatment of respiratory syncytial virus (RSV) infection. For example, 1-isopropyl-1,3-dihydrobenzimidazol-2-one was coupled with 2-chloromethyl-1-(3-methylbutyl)-1H-benzimidazole-5-carbonitrile in the presence of Cs2CO3 in DMF to give II (95%). Disclosed compds. protected HEp-2 cells from RSV-induced cytopathic effects with EC50 values between 50 μM and 0.001 μM, compared to an EC50 of 3 μM for ribavirin. I also displayed antiviral activity by reducing viral protein expression in HEp-2 cells with EC50 values between 50 μM and 0.001 μM, compared to an EC50 value of 3 μM for ribavirin. Thus, I and compns. comprising I are useful for the treatment of RSV infections.

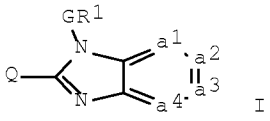
ACCESSION NUMBER: 2003:511082 HCAPLUS Full-text
DOCUMENT NUMBER: 139:85343
TITLE: Preparation of 2-(heterocyclylmethyl)benzimidazoles as respiratory syncytial virus antiviral agents
INVENTOR(S): Yu, Kuo-long; Wang, Xiangdong; Sun, Yaxiong; Cianci, Christopher; Thuring, Jan Willem; Combrink, Keith; Meanwell, Nicholas; Zhang, Yi; Civiello, Rita L.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 149 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003053344	A2	20030703	WO 2002-US39220	20021206 <--
WO 2003053344	A3	20031113		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L6 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of benzimidazoles as respiratory syncytial virus replication inhibitors.
GI



I

AB Title compds. [I; a1:a2a3:a4 = (substituted) CH:CHCH:CH, N:CHCH:CH, CH:NCH:CH; CH:CHN:CH, CH:CHCH:N; Q = R2R4NAX1, R2R4NCOAX1, specified (substituted) (hetero)cycles; A = (substituted) alkylene; X1 = imino, S, SO, SO2, O, CH2, CO, CH(OH), etc.; R1 = (substituted) bicyclic heterocycle; G = bond, (substituted) alkylene; R2 = H, CHO, alkylcarbonyl, pyrrolidinyl, piperidinyl, homopiperidinyl, etc.; R4 = H, alkyl, aralkyl], were prepared Thus, 1-[4-[[1-(2-quinolylmethyl)-1H-benzimidazol-2-yl]amino]- 1-piperidinyl]-3-methyl-2-butanone was hydrogenated with PhCH2NH2 in MeOH over Pd/C to give N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(2- quinolylmethyl)-1H-benzimidazol-2-amine and N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(1,2,3,4-tetrahydro-2- quinolyl)methyl]-1H-benzimidazol-2-amine tetrahydrochloride. Tested I inhibited respiratory syncytial virus replication with IC50 = 0.0004-1.5849 μM.

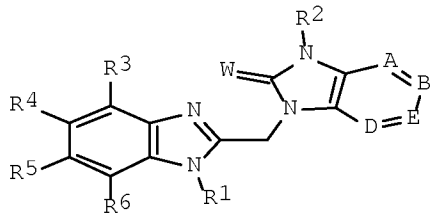
ACCESSION NUMBER: 2001:12448 HCAPLUS Full-text
DOCUMENT NUMBER: 134:86251
TITLE: Preparation of benzimidazoles as respiratory syncytial virus replication inhibitors.
INVENTOR(S): Janssens, Frans Eduard; Lacrampe, Jean Fernand Armand;
Guillemont, Jerome Emile Georges; Venet, Marc Gaston;
Andries, Koenraad Jozef Lodenwijk Marcel
PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000615	A1	20010104	WO 2000-EP5677	20000620 <--

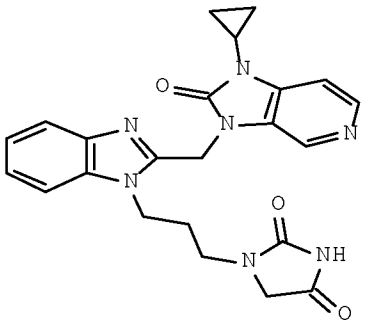
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,

ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

L6 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of imidazopyridine and imidazopyrimidine antiviral agents
GI



I



II

AB The title compds. [I; W = O, S; R1 = (CR'R'')nX; X = H, alkyl, cycloalkyl, etc.; n = 2-6; R2 = H, alkyl, cycloalkyl, etc.; R3-R6 = H, halo, alkyl, etc.; A, B, E, D = CH, CQ, N, NO; provided at least one of A, B, E or D is not CH or CQ; Q = halo, alkyl, alkyl substituted with 1-3 halogen atoms; R', R'' = H, alkyl, cycloalkyl, etc.], useful in the treatment of viral infections, more particularly, for the treatment of respiratory syncytial virus infection, were prepared Thus, reacting I [W = O; R1 = (CH2)3NH2; R2 = cyclopropyl; R3-R6 = H; E = N; A, B, D = CH] (preparation given) with N-chloroacetylurethane in the presence of Na2CO3 in MeCN afforded 39% II.TFA. The compds. I showed antiviral activity against RSV with EC50's between 50 μM and 0.001 μM vs. Ribavirin with an EC50 of 3 μM.

ACCESSION NUMBER: 2001:923615 HCAPLUS Full-text
DOCUMENT NUMBER: 136:37623
TITLE: Preparation of imidazopyridine and imidazopyrimidine antiviral agents
INVENTOR(S): Yu, Kuo-Long; Civiello, Rita L.; Combrink,

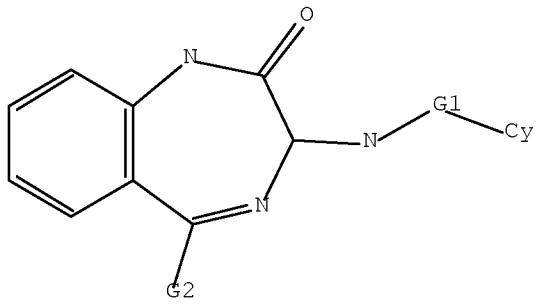
Keith D.;
Gulgeze, Hatice Belgin; Sin, Ny; Wang, Xiangdong;
Meanwell, Nicholas A.; Venables, Brian Lee
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 196 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001095910	A1	20011220	WO 2001-US14775	20010508 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

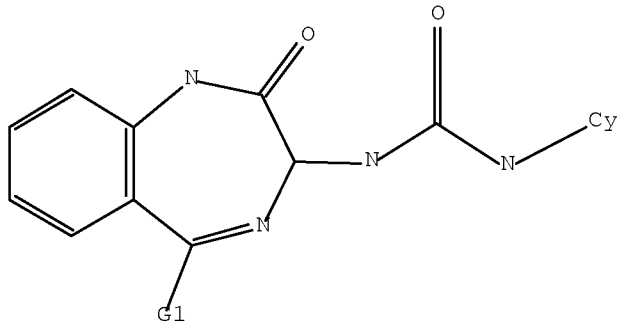
FILE 'REGISTRY' ENTERED AT 16:00:51 ON 07 DEC 2009
E 114054-02-9/RN
E 1140054-02-9/RN
SET EXPAND CONTINUOUS
L7 1 S E3
L8 1 S E4
L9 1 S E6
L10 1 S E7
E 1140054-36-9/RN
L11 1 S E15
E 317589-57-4/RN
L12 1 S E27
E 380602-42-6/RN
L13 1 S E39
L14 1 S E42
L15 1 S E43
L16 1 S E44
E 380602-53-9/RN
L17 1 S E51
E 380603-02-1/RN
L18 1 S E63

```
L19             1 S E70
L20             1 S E71
L21             1 S E72
                  E 380603-12-3/RN
L22             1 S E75
                  E 380604-00-2/RN
L23             1 S E87
L24             1 S E89
L25             1 S E95
                  E 380604-10-4/RN
L26             1 S E99
L27             1 S E104
L28             1 S E108
                  E 380604-21-7/RN
L29             1 S E111
                  E 406940-52-1/RN
L30             1 S E123

     FILE 'REGISTRY' ENTERED AT 16:13:41 ON 07 DEC 2009
L31               STRUCTURE UPLOADED

L31     STRUCTURE UPLOADED

=> d l31
L31 HAS NO ANSWERS
L31               STR
```




```
 G1 C,S
 G2 Cy,Ak



L32            50 S L31 SSS SAM
L33          1481 S L31 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 16:15:22 ON 07 DEC 2009
L34           511 S L33
L35           424 S L34 AND (PY<2004 OR AY<2004 OR PRY<2004)
L36             2 S L35 AND (SYNCYTIAL?)
L37             4 S L35 AND (VIRAL?)
L38             4 S L37 AND (PY<2004 OR AY<2004 OR PRY<2004)
L39             2 S L38 NOT L36

     FILE 'REGISTRY' ENTERED AT 16:18:37 ON 07 DEC 2009
                  E 304681-21-8/RN
```

```
L40           1 S E135
L41           1 S E136
L42           1 S E137
L43           1 S E140

     FILE 'REGISTRY' ENTERED AT 16:21:36 ON 07 DEC 2009
L44             STRUCTURE UPLOADED

L44     STRUCTURE UPLOADED

=> d l44
L44 HAS NO ANSWERS
L44             STR
```



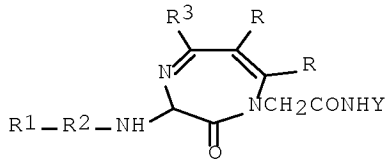
G1 Cy,Ak

```
L45          50 S L44 SSS SAM
L46        1901 S L44 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 16:22:34 ON 07 DEC 2009
L47         409 S L46
L48         341 S L47 AND (PY<2004 OR AY<2004 OR PRY<2004)
L49           1 S L48 AND (SYNCYTIAL?)
L50           2 S L48 AND (VIRAL?)
L51           1 S L50 NOT L49
L52           3 S L48 AND (RESPIRATORY)
L53           2 S L52 NOT L49

L53  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2009 ACS on STN
TI   A phase 1 study of the cholecystokinin (CCK) B antagonist L-
365,260 in
     human subjects taking morphine for intractable non-cancer pain
AB    To investigate the safety and tolerability of L-365,260 in human
      subjects taking morphine for intractable pain.  An open label
      study of nine adult subjects.  Two doses of L-365,260 were
      administered to all subjects separated by a 4 h interval (three
      received 10 mg, three 30 mg and three 60 mg). Hemodynamic and
      respiratory variables were recorded from immediately prior to
      first drug administration to T+600 min.  In addition, continuous
      ECG monitoring and serial 12 lead ECGs were recorded along with
      pain and side effect measurements.  No major side effects were
      observed L-365,260 was well tolerated.  No abnormalities in blood
      pressure, heart rate, respiratory rate or ECG measurements were
```

recorded. Minor side effects were observed L-365,260 can be safely administered at the doses investigated to human subjects receiving morphine for intractable pain.

ACCESSION NUMBER: 2002:807031 HCAPLUS Full-text
DOCUMENT NUMBER: 138:348601
TITLE: A phase 1 study of the cholecystokinin (CCK) B antagonist L-365,260 in human subjects taking morphine for intractable non-cancer pain
AUTHOR(S): McCleane, Gary J.
CORPORATE SOURCE: Rampark Pain Centre, Lurgan, BT66 7JH, UK
SOURCE: Neuroscience Letters (2002), 332(3), 210-212
CODEN: NELED5; ISSN: 0304-3940
PUBLISHER: Elsevier Science Ireland Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
CC 1-11 (Pharmacology)
IT 118101-09-0, L-365260
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effect of L-365260 in human subjects with intractable non-cancer pain)
OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Inhibitors of interleukin-1β converting enzyme
GI



I

AB The present invention relates to novel classes of compds. I [RC:CR is an optionally substituted aryl or heteroaryl ring; R1 = aryl, heteroaryl, alkylaryl, alkylheteroaryl; R2 = bond, CO, COCO, SO2, OCO, NHCO, NHSO2, NHCOCO, CH:CHCO, OCH2CO, NHCH2CO, etc.; R3 = aryl, heteroaryl, cycloalkyl, alkyl, dialkylamino; Y = R5CO(CH2)mCH2CH(COR6) or related lactones or semicarbazones, where R5 = OH, alkoxy, NHOH, etc.; R6 = H, HOCH2, aroyloxymethyl, etc.; m = 0 or 1] which were prepared as inhibitors of interleukin-1β converting enzyme. (ICE). Thus, (3S)-3-[3(R,S)-[(benzyloxycarbonyl)amino]-1,3-dihydro-2-oxo-5-phenyl-2H- 1,4-benzodiazepin-1-acetylamino]-4-oxobutyric acid, prepared from 3(R,S)-[(benzyloxycarbonyl)amino]-1,3-dihydro-2-oxo-5-phenyl-2H-

1,4- benzodiazepin-1-acetic acid and (3S)-3-(1-fluorenylmethoxycarbonylamino)-4- oxobutyric acid tert-Bu ester semicarbazone, showed ICE inhibition constant Ki = 650 nM and IC50 = 20,000 nM.

ACCESSION NUMBER: 1998:394349 HCAPLUS Full-text
DOCUMENT NUMBER: 129:54608
ORIGINAL REFERENCE NO.: 129:11385a,11388a
TITLE: Inhibitors of interleukin-1β converting enzyme
INVENTOR(S): Golec, Julian M. C.; Lauffer, David J.; Livingston, David J.; Mullican, Michael D.; Murcko, Mark A.; Nyce, Philip L.; Robidoux, Andrea L. C.; Wannamaker, Marion W.
PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA; Golec, Julian M. C.; Lauffer, David J.; Livingston, David J.; Mullican, Michael D.; Murcko, Mark A.; Nyce, Philip L.; Robidoux, Andrea L. C.; Wannamaker, Marion W.
SOURCE: PCT Int. Appl., 135 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

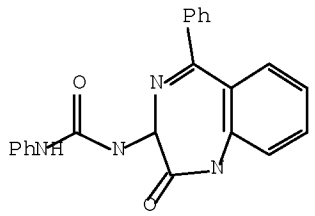
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9824805	A1	19980611	WO 1997-US22289	19971205 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2274249	A1	19980611	CA 1997-2274249	19971205 <--
AU 9858960	A	19980629	AU 1998-58960	19971205 <--
EP 944645	A1	19990929	EP 1997-954531	19971205 <--
EP 944645	B1	20050309		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				

MC, PT,
IE, FI
JP 2001505883 T 20010508 JP 1998-525818
19971205 <--
JP 4274584 B2 20090610
AT 290545 T 20050315 AT 1997-954531
19971205 <--
ES 2239788 T3 20051001 ES 1997-954531
19971205 <--
US 6329365 B1 20011211 US 1999-326495
19990604 <--
US 20030069228 A1 20030410 US 2001-35850
20011023 <--
US 6573259 B2 20030603
US 20040048855 A1 20040311 US 2003-424576
20030425 <--
US 6974809 B2 20051213
PRIORITY APPLN. INFO.: US 1996-32792P P
19961206 <--
US 1997-42660P P
19970404 <--
US 1997-53001P P
19970626 <--
WO 1997-US22289 W
19971205 <--
US 1999-326495 A3
19990604 <--
US 2001-35850 A3
20011023 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 129:54608
IC ICM C07K005-023
ICS A61K038-06
CC 34-3 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 1, 28, 63
IT Respiratory distress syndrome
(newborn; inhibitors of interleukin-1β converting enzyme)
IT 172968-04-6P 208758-94-5P 208758-95-6P 208758-96-7P
208758-97-8P
208758-98-9P 208758-99-0P 208759-00-6P 208759-01-7P
208759-02-8P
208759-03-9P 208759-04-0P 208759-05-1P 208759-06-2P
208759-07-3P
208759-09-5P 208759-11-9P 208759-13-1P 208759-15-3P
208759-17-5P 208759-19-7P 208759-21-1P 208759-24-4P
208759-26-6P
208759-28-8P 208759-30-2P 208759-32-4P 208759-38-0P
208759-39-1P
208759-40-4P 208759-41-5P 208759-42-6P 208759-43-7P
208759-44-8P
208759-45-9P 208759-46-0P 208759-47-1P 208759-48-2P
208759-49-3P
208759-50-6P 208759-51-7P 208759-52-8P 208759-53-9P
208759-54-0P
208759-55-1P 208759-56-2P 208759-57-3P 208759-58-4P
208759-59-5P
RL: BAC (Biological activity or effector, except adverse); BSU

(Biological
study, unclassified); SPN (Synthetic preparation); THU
(Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(inhibitors of interleukin-1β converting enzyme)

L55 STRUCTURE UPLOADED

=> d l55
L55 HAS NO ANSWERS
L55 STR



FILE 'REGISTRY' ENTERED AT 16:25:25 ON 07 DEC 2009
E 208759-11-9/RN
L54 1 S E147

FILE 'REGISTRY' ENTERED AT 16:27:13 ON 07 DEC 2009
L55 STRUCTURE UPLOADED
L56 2 S L55 SSS SAM
L57 7 S L55 SSS FULL

FILE 'HCAPLUS' ENTERED AT 16:28:08 ON 07 DEC 2009
L58 10 S L57
L59 9 S L58 AND (PY<2004 OR AY<2004 OR PRY<2004)
L60 1 S L59 AND VIRAL?
L61 1 S L60 AND RESPIRATORY

L61 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Inhibitors of interleukin-1β converting enzyme
ACCESSION NUMBER: 1998:394349 HCAPLUS Full-text
DOCUMENT NUMBER: 129:54608
ORIGINAL REFERENCE NO.: 129:11385a,11388a
TITLE: Inhibitors of interleukin-1β converting enzyme
INVENTOR(S): Golec, Julian M. C.; Lauffer, David J.; Livingston,
David J.; Mullican, Michael D.; Murcko, Mark A.; Nyce,
Philip L.; Robidoux, Andrea L. C.; Wannamaker, Marion
W.
PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA; Golec,
Julian M. C.; Lauffer, David J.; Livingston, David J.;
Mullican, Michael D.; Murcko, Mark A.; Nyce,

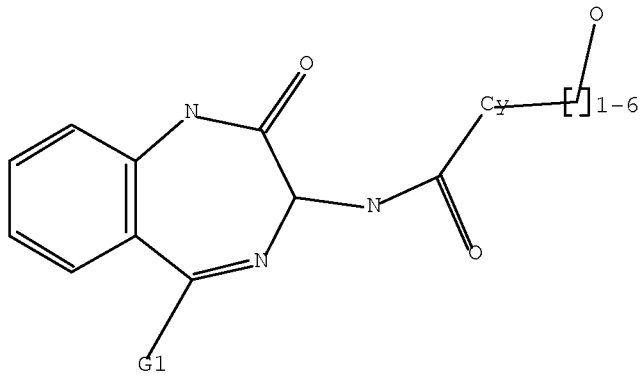
Philip
L.; Robidoux, Andrea L. C.; Wannamaker, Marion W.
SOURCE: PCT Int. Appl., 135 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9824805	A1	19980611	WO 1997-US22289	19971205 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2274249	A1	19980611	CA 1997-2274249	19971205 <--
AU 9858960	A	19980629	AU 1998-58960	19971205 <--
EP 944645	A1	19990929	EP 1997-954531	19971205 <--
EP 944645	B1	20050309		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001505883	T	20010508	JP 1998-525818	19971205 <--
JP 4274584	B2	20090610		
AT 290545	T	20050315	AT 1997-954531	19971205 <--
ES 2239788	T3	20051001	ES 1997-954531	19971205 <--
US 6329365	B1	20011211	US 1999-326495	19990604 <--
US 20030069228	A1	20030410	US 2001-35850	20011023 <--
US 6573259	B2	20030603		
US 20040048855	A1	20040311	US 2003-424576	20030425 <--
US 6974809	B2	20051213		
PRIORITY APPLN. INFO.:			US 1996-32792P	P 19961206 <--
			US 1997-42660P	P

19970404 <--
US 1997-53001P P
19970626 <--
WO 1997-US22289 W
19971205 <--
US 1999-326495 A3
19990604 <--
US 2001-35850 A3
20011023 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 129:54608
IC ICM C07K005-023
ICS A61K038-06
CC 34-3 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 1, 28, 63
IT Respiratory distress syndrome
(newborn; inhibitors of interleukin-1β converting enzyme)
IT Hepatitis
(viral, chronic active; inhibitors of interleukin-1β converting enzyme)
IT 172968-04-6P 208758-94-5P 208758-95-6P 208758-96-7P 208758-97-8P
208758-98-9P 208758-99-0P 208759-00-6P 208759-01-7P 208759-02-8P
208759-03-9P 208759-04-0P 208759-05-1P 208759-06-2P 208759-07-3P
208759-09-5P 208759-11-9P 208759-13-1P 208759-15-3P
208759-17-5P 208759-19-7P 208759-21-1P 208759-24-4P 208759-26-6P
208759-28-8P 208759-30-2P 208759-32-4P 208759-38-0P 208759-39-1P
208759-40-4P 208759-41-5P 208759-42-6P 208759-43-7P 208759-44-8P
208759-45-9P 208759-46-0P 208759-47-1P 208759-48-2P 208759-49-3P
208759-50-6P 208759-51-7P 208759-52-8P 208759-53-9P 208759-54-0P
208759-55-1P 208759-56-2P 208759-57-3P 208759-58-4P 208759-59-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(inhibitors of interleukin-1β converting enzyme)

L1 STRUCTURE UPLOADED
L2 3 S L1 SSS SAM
L3 67 S L1 SSS FULL
L4 STRUCTURE UPLOADED
L5 0 S L4 SSS SAM
L6 6 S L4 SSS FULL

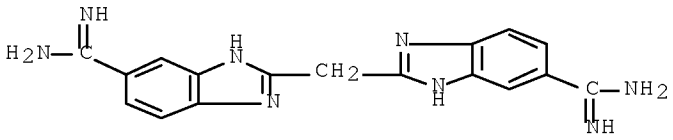
```
     FILE 'HCAPLUS' ENTERED AT 12:43:23 ON 08 DEC 2009
L7             2 S L6
L8            10 S L3
L9             9 S L8 AND (PY<2004 OR AY<2004 OR PRY<2004)
L10            0 S L9 AND (VIRAL OR VIRUS?)
L11            0 S L9 AND (SYNCYTIAL?)
L12            0 S L9 AND RESPIRATORY
L13            2 S L9 AND ?FLU?

     FILE 'REGISTRY' ENTERED AT 12:51:21 ON 08 DEC 2009
L14              STRUCTURE UPLOADED
L15            0 S L14 SSS SAM
L16            0 S L14 SSS FULL
L17              STRUCTURE UPLOADED

L17     STRUCTURE UPLOADED

=> d l17
L17 HAS NO ANSWERS
L17              STR
```



G1 Cy,Ak

```
L18            0 S L17 SSS SAM
L19            0 S L17 SSS FULL


L1             1 S US 20070185096/PN

     FILE 'REGISTRY' ENTERED AT 18:10:50 ON 16 DEC 2009
L2             1 S 317846-22-3/RN
                 SET NOTICE 1 DISPLAY
                 SET NOTICE LOGIN DISPLAY
L3             0 S L1 AND 'BIS(5-AMIDINO-2-BENZIMIDAZOLYL)-METHANE'
L4             1 S  'BIS(5-AMIDINO-2-BENZIMIDAZOLYL)-METHANE'

     FILE 'HCAPLUS' ENTERED AT 18:13:47 ON 16 DEC 2009

     FILE 'REGISTRY' ENTERED AT 18:14:05 ON 16 DEC 2009
                 E 74733-75-8/RN

L5   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
```

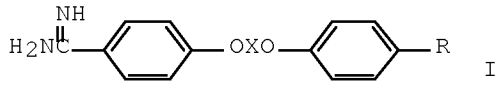
RN 74733-75-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Benzimidazole-6-carboximidamide, 2,2'-methylenebis- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Benzimidazole-5-carboximidamide, 2,2'-methylenebis- (9CI)
OTHER NAMES:
CN APD 1
CN BABIM
CN Bis(5-Amidino-2-benzimidazolyl)methane
MF C17 H16 N8
CI COM
LC STN Files: ADISINSIGHT, AGRICOLA, BEILSTEIN*, BIOSIS, BIOTECHNO, CA,
CAPLUS, EMBASE, IMSRESEARCH, MEDLINE, PHAR, PROUSDDR, TOXCENTER, USPAT2,
USPATFULL
(*File contains numerically searchable property data)



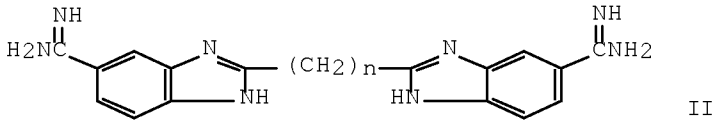
SET EXPAND CONTINUOUS
L5 1 S E3

FILE 'HCAPLUS' ENTERED AT 18:14:37 ON 16 DEC 2009
L6 54 S L5
L7 7 S L6 AND (SYNCYTIAL?)
L8 6 S L7 AND (PY<2004 OR AY<2004 OR PRY<2004)

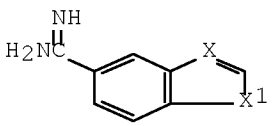
L8 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Inhibition of respiratory syncytial virus-induced cell fusion by amidino compounds
GI



I



II



III

AB A number of aromatic mono- and bis-amidines I (R = H or C(NH)NH2, X = alkane-1,ω-diyl or 2-hydroxybutane-1,4-diyl), II (n = 1 or 2), and III (X = CH or N; X1 = O, NH, NMe, or NCH2C6H4C(NH)NH2-4) capable of blocking cell fusion induced by respiratory syncytial (RS) virus are described. I (R = H, X = hexane-1,6-diyl or octane-1,8-diyl) were synthesized. The most powerful of the compds., II [74733-75-8] (n = 1), completely suppressed syncytium formation at a concentration of 1 μM. Inhibition occurs in RS virus-infected Hep-2 cells as well as CV-1 cells. II (n = 1) also caused a significant retardation of RS virus penetration, but did not interfere with adsorption. Addition of the amidines after the penetration of RS virus does not affect single cycle yields. Structure-activity relations are discussed. The compds. may be used in the prophylactic control of RS virus in man.

ACCESSION NUMBER: 1982:417115 HCAPLUS Full-text
DOCUMENT NUMBER: 97:17115
ORIGINAL REFERENCE NO.: 97:2905h,2906a
TITLE: Inhibition of respiratory syncytial virus-induced cell fusion by amidino compounds
INVENTOR(S): Tidwell, Richard R.; Dubovi, Edward J.; Geratz, Joachim D.
PATENT ASSIGNEE(S): Research Triangle Institute, USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4324794	A	19820413	US 1980-181341	19800826 <--
US 4397863	A	19830809	US 1982-366652	19820408 <--
US 4619942	A	19861028	US 1983-521084	19830808 <--

PRIORITY APPLN. INFO.: US 1980-181341 A3 19800826 <--
US 1982-366652 A3 19820408 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 97:17115
IC A61K031-415; A61K031-155; A61K031-40
INCL 424273000B
CC 1-5 (Pharmacology)
IT 100-33-4 618-39-3 67834-00-8 71889-74-2 71889-75-3 71889-77-5
71892-45-0 74733-75-8 75846-15-0 77838-88-1 77838-93-8
RL: BIOL (Biological study)
(virus-induced cell fusion inhibition by, structure in relation to)